S. N. SAMADDAR, Space and Information Systems Division, "Behaviour of Separation Constants for Gyromagnetic Plasmas," *Electronic Lett.* 2, 7 (1966), "Radiation from a Dielectric Coated Cylindrical Core Loop Antenna Surrounded by a Lossy Plasma Sheath," *Int. J. Electronics* 20, 1, 65 (1966). "Modes in Waveguides Filled with Longitudinally Magnetized Ferrite," *IEEE Trans. Antennas and Propagation*, May 1966.

B. H. SCHIFF, Missile Systems Division, "A Simple User-Oriented Compiler Source for Programming Automatic Test Equipment," *Communications ACM*, April 1966.

E. SCHLOEMANN, Research Division, "Theoretical Analysis of Twin-Slab Phase Shifters in Rectangular Waveguide," *IEEE Trans. Microwave Theory and Techniques* MTT-4, 1 (1966).

E. SCHLOEMANN, J. J. GREEN, and J. H. SAUNDERS, Research Division, "Ultimate Performance Limitations of High-Power Ferrite Circulators and Phase Shifters," *IEEE Trans. Magnetics 1*, 3 (1965).

P. A. SILBERG, Equipment Division, "On the Frequency Response of Tornado Sferics," Proc. IEEE *53*, 11 (1965). "Dehydration and Burning Produced by the Tornado," *J. Atmos. Sci. 23*, 2 (1966).

G. M. WALSH and M. A. CHRAMIEC, Submarine Signal Division, "Sub-Bottom Profiling with a Replica Correlation Receiver," *Undersea Technology*, September 1966.

A. YILDIZ, Equipment Division, and E. J. POST, AFCRL, "Cavity Resonances in Accelerated Systems," *Phys. Rev. Lett.* 15, 5, 177 (1965).

A. YILDIZ and C. H. TANG, Equipment Division, "Electromagnetic Cavity Resonances in Accelerated Systems," *Phys. Rev.* 146, 4, 947 (1966).

INDEX TO CONTENTS OF VOLUME X

NUMBER 1 & 2

Design Considerations for an Advanced Digital Beam Steering Computer ..... *H. Sobel*

A Microminiaturized Digital Computer ..... *A. Devault, N. Cserhalmi*

Computer System Reliability ..... *O. Lowenschuss, S. B. Lerner*

The Quantization Process ..... *L. S. Golding*

Content-Addressable Programming Techniques ..... *B. H. Scheff*

Memory Organizations for Digital Signal Processing ..... *P. W. Cheney*

High-Speed Multiplication for the R-11 Computer ..... *S. E. Greenfield*

Duality and Logic Design ..... *G. N. Shapiro*

Characteristics of Threshold Logic Design ..... *J. F. O'Loughlin*

Combinational Hazards in Factored NOR(NAND) Logic ..... *T. Erb*

Index to Contents of Volume IX

NUMBER 3 & 4

Application of Large Time Bandwidth Product Signals to Oceanographic Instrumentation ..... *G. M. Walsh*

Polarity Coincidence Correlation with Split Arrays for Sonar Reception ..... *J. F. Bartram, J. T. Kroenert*

Electrographic Recorders and Applications ..... *R. G. Popovici*

Development of Standardized Logic Modules for Signal Processing Systems ..... *T. P. Sifferlen, D. C. Courtois*

Progress Through Education

Index to Contents of Volume X

The next issue of Electronic Progress will be devoted to materials technology and research as major contributing factors in the development and production of electronic products. The results that will be shown are typical of the contributions that can be made by materials specialists whenever material activity is effectively integrated into engineering and research for any product.

S. N. SAMADDAR, Space and Information Systems Division, "Behaviour of Separation Constants for Gyromagnetic Plasmas," *Electronic Lett.* 2, 7 (1966), "Radiation from a Dielectric Coated Cylindrical Core Loop Antenna Surrounded by a Lossy Plasma Sheath," *Int. J. Electronics* 20, 1, 65 (1966). "Modes in Waveguides Filled with Longitudinally Magnetized Ferrite," *IEEE Trans. Antennas and Propagation*, May 1966.

B. H. SCHIFF, Missile Systems Division, "A Simple User-Oriented Compiler Source for Programming Automatic Test Equipment," *Communications ACM*, April 1966.

E. SCHLOEMANN, Research Division, "Theoretical Analysis of Twin-Slab Phase Shifters in Rectangular Waveguide," *IEEE Trans. Microwave Theory and Techniques* MTT-4, 1 (1966).

E. SCHLOEMANN, J. J. GREEN, and J. H. SAUNDERS, Research Division, "Ultimate Performance Limitations of High-Power Ferrite Circulators and Phase Shifters," *IEEE Trans. Magnetics 1*, 3 (1965).

P. A. SILBERG, Equipment Division, "On the Frequency Response of Tornado Sferics," Proc. IEEE *53*, 11 (1965). "Dehydration and Burning Produced by the Tornado," *J. Atmos. Sci. 23*, 2 (1966).

G. M. WALSH and M. A. CHRAMIEC, Submarine Signal Division, "Sub-Bottom Profiling with a Replica Correlation Receiver," *Undersea Technology*, September 1966.

A. YILDIZ, Equipment Division, and E. J. POST, AFCRL, "Cavity Resonances in Accelerated Systems," *Phys. Rev. Lett.* 15, 5, 177 (1965).

A. YILDIZ and C. H. TANG, Equipment Division, "Electromagnetic Cavity Resonances in Accelerated Systems," *Phys. Rev.* 146, 4, 947 (1966).

INDEX TO CONTENTS OF VOLUME X

NUMBER 1 & 2

Design Considerations for an Advanced Digital Beam Steering Computer ..... *H. Sobel*

A Microminiaturized Digital Computer ..... *A. Devault, N. Cserhalmi*

Computer System Reliability ..... *O. Lowenschuss, S. B. Lerner*

The Quantization Process ..... *L. S. Golding*

Content-Addressable Programming Techniques ..... *B. H. Scheff*

Memory Organizations for Digital Signal Processing ..... *P. W. Cheney*

High-Speed Multiplication for the R-11 Computer ..... *S. E. Greenfield*

Duality and Logic Design ..... *G. N. Shapiro*

Characteristics of Threshold Logic Design ..... *J. F. O'Loughlin*

Combinational Hazards in Factored NOR(NAND) Logic ..... *T. Erb*

Index to Contents of Volume IX

NUMBER 3 & 4

Application of Large Time Bandwidth Product Signals to Oceanographic Instrumentation ..... *G. M. Walsh*

Polarity Coincidence Correlation with Split Arrays for Sonar Reception ..... *J. F. Bartram, J. T. Kroenert*

Electrographic Recorders and Applications ..... *R. G. Popovici*

Development of Standardized Logic Modules for Signal Processing Systems ..... *T. P. Sifferlen, D. C. Courtois*

Progress Through Education

Index to Contents of Volume X

The next issue of Electronic Progress will be devoted to materials technology and research as major contributing factors in the development and production of electronic products. The results that will be shown are typical of the contributions that can be made by materials specialists whenever material activity is effectively integrated into engineering and research for any product.